



NMTBA
The Association For
Manufacturing Technology

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STATISTICAL

No. 102-91 October 9, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY - JULY 1991 (Values in Millions of U.S. Dollars)

	July 1991	June 1991	Average Apr.-Jun	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	\$ 46.6	\$ 61.7	\$ 56.3	\$ 363.1	\$ 356.2	1.9%
Imports	<u>\$118.5</u>	<u>\$144.0</u>	<u>\$159.0</u>	<u>\$ 977.5</u>	<u>\$1,034.2</u>	(5.5%)
Balance	(\$ 71.9)	(\$ 82.3)	(\$102.7)	(\$ 614.4)	(\$ 678.0)	(9.4%)
METAL FORMING MACHINE TOOLS						
Exports	\$ 43.9	\$ 43.7	\$ 44.1	\$ 278.9	\$ 274.4	1.6%
Imports	<u>\$ 31.9</u>	<u>\$ 34.7</u>	<u>\$ 53.1</u>	<u>\$ 326.0</u>	<u>\$ 273.2</u>	19.3%
Balance	\$ 12.0	\$ 9.0	(\$ 9.0)	(\$ 47.1)	\$ 1.2	NM
MACHINE TOOL TOTAL						
Exports	\$ 90.5	\$105.4	\$100.4	\$ 642.0	\$ 630.6	1.8%
Imports	<u>\$150.4</u>	<u>\$178.6</u>	<u>\$212.1</u>	<u>\$1,303.5</u>	<u>\$1,307.6</u>	(0.3%)
Balance	(\$ 59.9)	(\$ 73.2)	(\$111.7)	(\$ 661.5)	(\$ 676.9)	(2.3%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	\$ 20.0	\$ 27.0	\$ 31.0	\$ 195.7	\$ 203.2	(3.7%)
Imports	<u>\$ 80.8</u>	<u>\$114.6</u>	<u>\$118.6</u>	<u>\$ 706.1</u>	<u>\$ 691.0</u>	2.2%
Balance	(\$ 60.8)	(\$ 87.6)	(\$ 87.6)	(\$ 510.4)	(\$ 487.8)	4.6%
OTHER MANUFACTURING TECHNOLOGY						
Exports	\$150.0	\$139.9	\$143.0	\$ 983.9	\$1,056.3	(6.9%)
Imports	<u>\$177.7</u>	<u>\$155.3</u>	<u>\$171.7</u>	<u>\$1,202.6</u>	<u>\$1,151.5</u>	4.4%
Balance	(\$ 27.7)	(\$ 15.4)	(\$ 28.7)	(\$ 218.7)	(\$ 95.2)	129.7%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. () denotes negative. NM = not meaningful. Individual items may not add up to totals due to rounding.

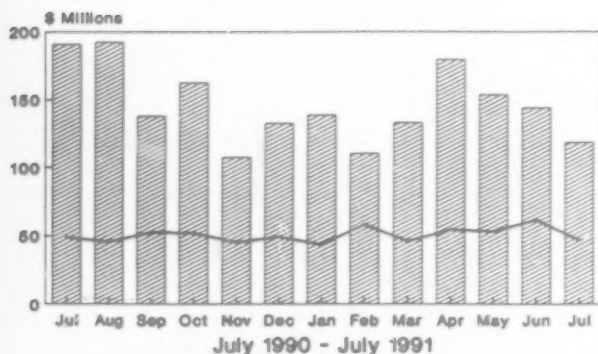
• U.S. machine tool exports fell 14% in July to \$90.5 million. However, year-to-date exports (\$642.0 million) are up 2% over last year's record pace.

• Machine tool imports fell for the third consecutive month in July, totalling \$150.4 million, the lowest total since May 1988. Year-to-date imports are down marginally from last year at this time.

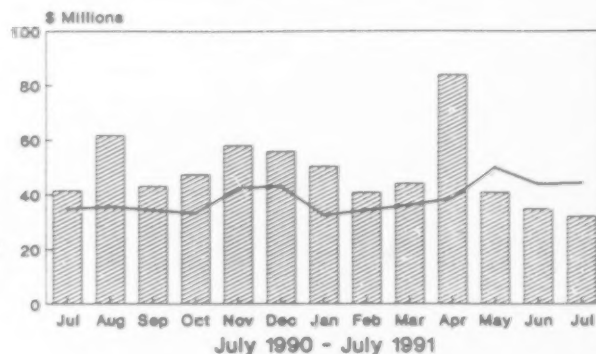
• Year-to-date exports of NC machine tools of \$195.7 million are down 4% from last year. Imports of NC machines so far this year are up 2% to \$706.1 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

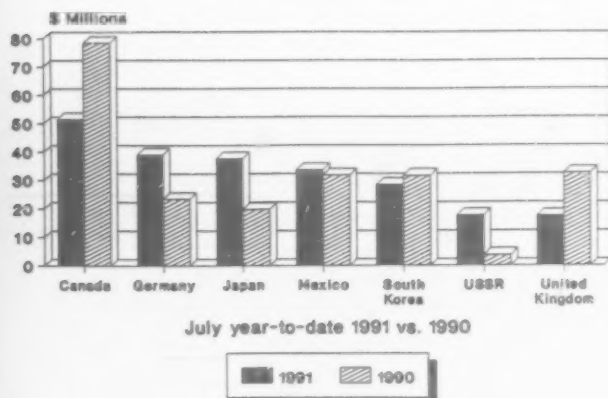
Exports

• Exports of metal cutting machines in July fell 24% from June to \$46.6 million. Year-to-date exports are \$363.1 million, up 2% over last year.

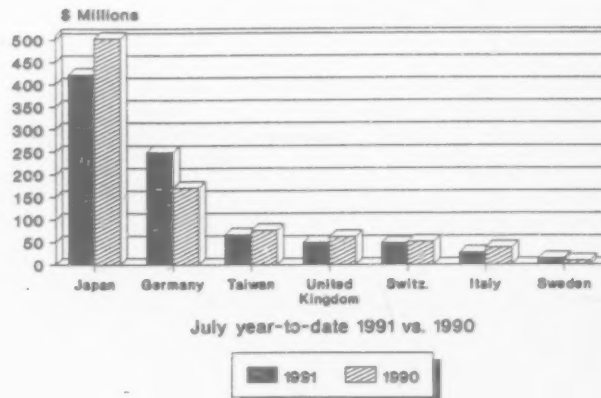
• The top market in July was Canada at \$8.8 million, followed by South Korea (\$5.8 million) and Mexico (\$4.4 million). Year-to-date export leaders are Canada (\$51.5 million, down 34% from last year), Germany (\$38.9 million, up 67%), Japan (\$37.6 million, up 89%) and Mexico (\$33.6 million, up 6%).

• Exports so far in 1991 of boring machines (\$9.3 million) are down 25% from last year; exports of drilling machines (\$14.4 million) are up 31%. Exports of NC metal cutting machines this year (\$155.1 million) are up 1% over last year.

LEADING U.S. EXPORT MARKETS METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES METAL CUTTING MACHINES



Imports

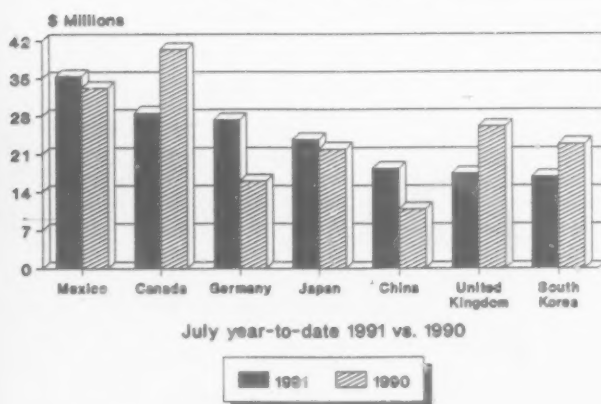
- Imports of metal cutting machines fell to \$118.5 million in July from \$144.0 million in June. Year-to-date imports are down 5% from last year at \$977.5 million.
- Year-to-date imports from Japan are \$422.7 million, down from \$502.6 million in 1990 through July. Imports from Germany are \$249.4 million, up 46% over 1990's \$170.5 million. Imports from Brazil (\$5.4 million) are down 40% from last year, while imports from Italy (\$26.3 million) are down 29%.
- Imports of grinding machines in 1991 through July are \$134.9 million, down 20% from last year; imports of non-NC lathes are down 30% at \$51.0 million.

METAL FORMING MACHINE TOOLS

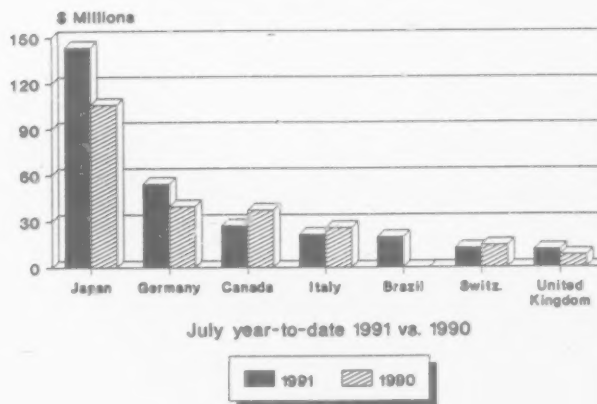
Exports

- Exports of metal forming machines rose fractionally from June to July to \$43.9 million. Year-to-date exports are 2% higher than last year at \$278.9 million.
- Mexico was the top export market in July at \$6.1 million, followed by South Korea (\$5.0 million) and Japan (\$3.7 million). Mexico is also the top year-to-date export market at \$35.4 million, followed by Canada (\$28.6 million), Germany (\$27.3 million) and Japan (\$23.7 million).
- Exports of presses in 1991 through July are down 23% to \$49.2 million; exports of punching and shearing machines are down 26% to \$32.0 million.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Metal forming machine tool imports fell for the third consecutive month to \$31.9 million. Year-to-date imports are up 19%, however, largely because of an extraordinarily high April import total.
- Metal forming imports from Japan were \$14.1 million in July, up from \$8.2 million in June. Japan is the top year-to-date import source at \$143.3 million, up 35% from last year, followed by Germany (\$54.4 million, up 37%), Canada (\$27.3 million, down 27%) and Italy (\$21.5 million, down 17%).

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of industrial robots so far in 1991 are \$41.5 million, up from \$38.0 million last year. Exports of industrial robot parts are up 33% to \$81.9 million.
- Exports of numerical controls for controlling machine tools are \$13.8 million in 1991 through July, down from \$18.5 million last year at this time.
- Exports of machine tool parts and accessories in 1991 through July are \$395.3 million, down from \$416.8 million last year at this time.

Imports

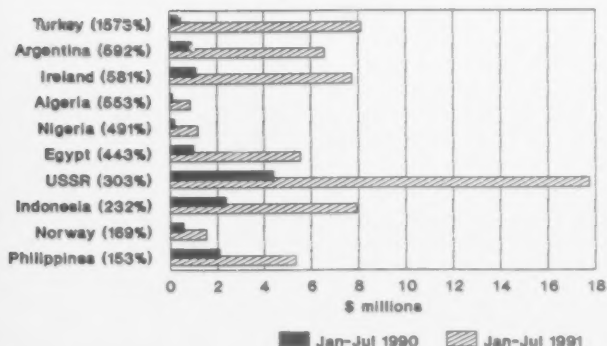
- Imports of machine tool parts and accessories in July were \$54.4 million, for a year-to-date total of \$336.9 million. The comparable figure for 1990: \$328.4 million.
- Imports of injection molding machines in 1991 through July are \$189.9 million, compared with \$185.2 million last year at this time. Imports of extruders are \$41.4 million, down from \$45.4 million last year at this time.

MONTHLY FOCUS

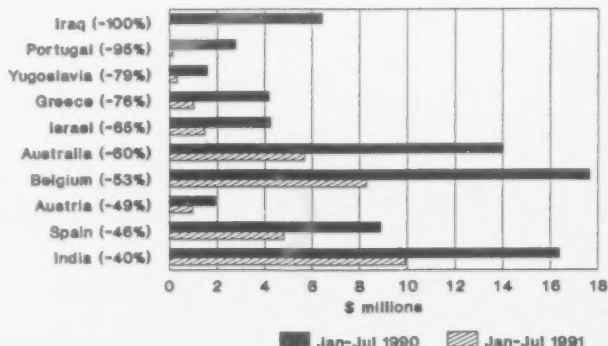
U.S. machine tool exports to Germany in the first seven months of 1991 are up 68% compared to last year. Many other countries, though, have even higher percentage increases than does Germany. Turkey tops the list: U.S. machine tool exports to Turkey in 1991 through July are \$8.1 million, up from \$0.5 million in 1990 through July, an increase of 1,573%. On the other hand, U.S. exports to Iraq in 1990 through July were \$6.4 million; so far this year, exports are zero, a decrease of 100%.

The charts below show the biggest U.S. machine tool export gainers and losers, in percentage terms, in 1991 through July compared to 1990 through July. The figures in parentheses are the percentage increases (left chart) and decreases (right chart). Not shown on the chart on the right is the United Kingdom, exports to which this year (\$34.8 million) are down 41% from last year.

**Biggest % Increases in
U.S. Machine Tool Exports
Jan-July 1990 vs. Jan-July 1991**



**Biggest % Decreases in
U.S. Machine Tool Exports
Jan-July 1990 vs. Jan-July 1991**



1991 EXPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Canada	\$8,823,741	\$8,154,483	8.2%	\$51,483,253	\$78,461,441	-34.4%
Germany	1,224,804	4,612,656	-73.4%	38,928,099	23,366,803	66.6%
Japan	3,530,080	10,974,569	-67.8%	37,587,602	19,842,514	89.4%
Mexico	4,445,568	8,218,265	-45.9%	33,602,112	31,742,173	5.9%
South Korea	5,817,849	6,400,548	-9.1%	28,405,481	31,597,285	-10.1%
USSR	1,054,809	1,372,700	-23.2%	17,623,999	3,707,174	375.4%
United Kingdom	1,752,795	3,881,998	-54.8%	17,402,796	32,517,892	-46.5%
China	2,323,683	1,135,393	104.7%	16,863,071	12,251,382	37.6%
France	186,923	646,214	-71.1%	10,540,483	6,165,548	71.0%
India	2,010,575	1,392,894	44.3%	9,104,081	10,675,717	-14.7%
Brazil	1,870,476	1,841,252	1.6%	8,412,852	9,539,234	-11.8%
Italy	573,903	1,002,598	-42.8%	8,081,255	11,627,473	-30.5%
Taiwan	1,920,267	1,565,630	22.7%	7,928,709	8,224,153	-3.6%
Venezuela	983,069	874,293	12.4%	7,218,881	3,872,097	86.4%
Belgium	167,576	668,598	-74.9%	6,409,345	15,506,901	-58.7%
Singapore	488,286	1,798,904	-72.9%	5,156,464	5,169,313	-0.2%
Indonesia	3,161,417	0	NA	4,455,891	138,051	3127.7%
Switzerland	375,402	908,911	-58.7%	3,879,515	4,115,493	-5.7%
Netherlands	244,790	135,708	80.4%	3,394,604	3,707,464	-8.4%
Australia	276,224	677,193	-59.2%	2,977,316	10,261,072	-71.0%
Malaysia	849,304	309,918	174.0%	2,485,003	1,178,213	110.9%
Thailand	58,985	53,682	9.9%	1,695,643	1,186,283	42.9%
Spain	163,989	19,984	720.6%	1,173,218	4,417,390	-73.4%
Austria	16,109	144,665	-88.9%	654,288	196,941	232.2%

METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Mexico	\$6,051,875	\$6,878,437	-12.0%	\$35,428,042	\$33,204,808	6.7%
Canada	2,166,348	4,679,687	-53.7%	28,593,757	40,372,241	-29.2%
Germany	2,570,232	2,334,464	10.1%	27,327,267	16,012,922	70.7%
Japan	3,659,636	2,640,973	38.6%	23,699,187	21,928,693	8.1%
China	974,857	1,336,266	-27.0%	18,307,222	10,878,929	68.3%
United Kingdom	2,905,793	3,884,185	-25.2%	17,431,712	26,092,024	-33.2%
South Korea	5,043,506	1,684,170	199.5%	16,840,742	22,848,009	-26.3%
France	2,650,150	3,791,859	-30.1%	16,658,011	11,269,882	47.8%
Netherlands	1,546,303	351,273	340.2%	7,733,103	4,658,807	66.0%
Thailand	1,244,039	2,841,908	-56.2%	6,352,914	3,236,827	96.3%
Italy	1,223,156	969,325	26.2%	6,064,516	5,906,682	2.7%
Taiwan	608,357	509,210	19.5%	5,265,586	9,639,920	-45.4%
Singapore	970,730	251,798	285.5%	4,220,035	4,016,294	5.1%
Brazil	46,349	1,271,121	-96.4%	4,068,933	4,069,335	0.0%
Spain	274,532	2,623,337	-89.5%	3,636,371	4,469,343	-18.6%
Indonesia	18,800	108,013	-82.6%	3,456,499	2,246,143	53.9%
Australia	695,217	624,611	11.3%	2,693,478	3,760,701	-28.4%
Belgium	80,830	1,010,320	-92.0%	1,884,644	2,156,630	-12.6%
Venezuela	203,132	507,503	-60.0%	1,527,964	968,175	57.8%
Switzerland	137,446	110,417	24.5%	1,435,178	1,495,331	-4.0%
Malaysia	46,590	3,393	1273.1%	860,124	3,912,245	-78.0%
India	30,055	111,902	-73.1%	819,590	5,719,341	-85.7%
Austria	136,632	0	NA	324,289	1,722,788	-81.2%
USSR	97,244	25,640	279.3%	122,884	694,819	-82.3%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Canada	10,990,089	12,834,170	-14.4%	80,077,010	118,833,682	-32.6%
Mexico	10,497,443	15,096,702	-30.5%	69,030,154	64,946,981	6.3%
Germany	3,795,036	6,947,120	-45.4%	66,255,366	39,379,725	68.2%
Japan	7,189,716	13,615,542	-47.2%	61,286,789	41,771,207	46.7%
South Korea	10,861,355	8,084,718	34.3%	45,246,223	54,445,294	-16.9%
China	3,298,540	2,471,659	33.5%	35,170,293	23,130,311	52.1%
United Kingdom	4,658,588	7,766,183	-40.0%	34,834,508	58,609,916	-40.6%
France	2,837,073	4,438,073	-36.1%	27,198,494	17,435,430	56.0%
USSR	1,152,053	1,398,340	-17.6%	17,746,883	4,401,993	303.2%
Italy	1,797,059	1,971,923	-8.9%	14,145,771	17,534,155	-19.3%
Taiwan	2,528,624	2,074,840	21.9%	13,194,295	17,864,073	-26.1%
Brazil	1,916,825	3,112,373	-38.4%	12,481,785	13,608,569	-8.3%
Netherlands	1,791,093	486,981	267.8%	11,127,707	8,366,271	33.0%
India	2,040,630	1,504,796	35.6%	9,923,671	16,395,058	-39.5%
Singapore	1,459,016	2,050,702	-28.9%	9,376,499	9,185,607	2.1%
Venezuela	1,186,201	1,381,796	-14.2%	8,746,845	4,840,272	80.7%
Belgium	248,406	1,678,918	-85.2%	8,293,989	17,663,531	-53.0%
Thailand	1,303,024	2,895,590	-55.0%	8,048,557	4,423,110	82.0%
Indonesia	3,180,217	108,013	2844.3%	7,912,390	2,384,194	231.9%
Australia	971,441	1,301,804	-25.4%	5,670,794	14,021,773	-59.6%
Switzerland	512,848	1,019,328	-49.7%	5,314,693	5,610,824	-5.3%
Spain	438,521	2,643,321	-83.4%	4,809,589	8,886,733	-45.9%
Malaysia	895,894	313,311	185.9%	3,345,127	5,090,458	-34.3%
Austria	152,741	144,665	5.6%	978,577	1,919,729	-49.0%

1991 IMPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Japan	\$51,360,545	\$53,601,710	-4.2%	\$422,713,097	\$502,608,205	-15.9%
Germany	19,446,328	52,275,221	-62.8%	249,442,443	170,473,384	46.3%
Taiwan	11,297,402	8,265,642	36.7%	67,161,491	77,014,155	-12.8%
United Kingdom	6,173,669	5,023,408	22.9%	50,066,854	61,621,529	-18.8%
Switzerland	9,609,206	6,543,203	46.9%	48,032,891	51,009,993	-5.8%
Italy	3,734,233	5,076,750	-26.4%	26,321,001	37,159,582	-29.2%
Sweden	626,357	868,907	-27.9%	12,956,875	8,705,371	48.8%
Spain	1,170,722	1,016,548	15.2%	12,154,267	16,265,148	-25.3%
France	2,151,021	948,235	126.8%	12,056,444	18,254,529	-34.0%
Canada	2,225,693	1,997,968	11.4%	11,453,255	14,097,370	-18.8%
South Korea	2,165,159	1,511,994	43.2%	11,155,720	11,163,927	-0.1%
Singapore	1,142,319	1,153,400	-1.0%	6,621,154	12,556,124	-47.3%
Brazil	1,271,352	412,183	208.4%	5,415,807	9,002,076	-39.8%
Belgium	387,565	3,820	10045.7%	1,684,557	1,027,318	64.0%

METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Japan	\$14,119,721	\$8,193,742	72.3%	\$143,349,725	\$105,903,270	35.4%
Germany	5,414,485	9,664,765	-44.0%	54,433,077	39,858,867	36.6%
Canada	2,736,139	3,827,395	-28.5%	27,300,847	37,303,640	-26.8%
Italy	2,118,764	2,189,022	-3.2%	21,546,213	25,807,866	-16.5%
Brazil	43,982	0	NA	19,740,871	0	NA
Switzerland	1,918,276	3,178,774	-39.7%	12,467,998	14,330,264	-13.0%
United Kingdom	574,713	696,966	-17.5%	11,453,054	7,960,867	43.9%
Sweden	684,500	887,335	-22.9%	7,840,820	4,903,181	59.9%
Belgium	351,297	484,540	-27.5%	5,299,975	16,358,081	-67.6%
Taiwan	821,531	381,556	115.3%	4,169,713	6,573,583	-36.6%
Spain	528,389	276,854	90.9%	2,061,402	2,811,010	-26.7%
France	152,134	110,501	37.7%	1,254,389	2,455,522	-48.9%
South Korea	66,900	82,000	-18.4%	512,235	123,692	314.1%
Singapore	0	0	NA	300,254	64,967	362.2%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY' 91 YTD	JULY' 90 YTD	% CHANGE
Japan	\$65,480,266	\$61,795,452	6.0%	\$566,062,822	\$608,511,475	-7.0%
Germany	24,860,813	61,939,986	-59.9%	303,875,520	210,332,251	44.5%
Taiwan	14,033,541	12,093,037	16.0%	94,462,338	114,317,795	-17.4%
United Kingdom	8,292,433	7,212,430	15.0%	71,613,067	87,429,395	-18.1%
Switzerland	9,653,188	6,543,203	47.5%	67,773,762	51,009,993	32.9%
Italy	5,652,509	8,255,524	-31.5%	38,788,999	51,489,846	-24.7%
Sweden	1,201,070	1,565,873	-23.3%	24,409,929	16,666,238	46.5%
Spain	1,855,222	1,903,883	-2.6%	19,995,087	21,168,329	-5.5%
France	2,502,318	1,432,775	74.6%	17,356,419	34,612,610	-49.9%
Canada	3,047,224	2,379,524	28.1%	15,622,968	20,670,953	-24.4%
South Korea	2,693,548	1,788,848	50.6%	13,217,122	13,974,937	-5.4%
Singapore	1,294,453	1,263,901	2.4%	7,875,543	15,011,646	-47.5%
Brazil	1,338,252	494,183	170.8%	5,928,042	9,125,768	-35.0%
Belgium	387,565	3,820	10045.7%	1,984,811	1,092,285	81.7%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	5,272	15,333,596
Boring machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear cutting machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
NC horizontal lathes	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
NC vertical lathes	1	161,310	2	341,835	6	371,174	1	89,700
Non-NC lathes	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station type machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other metal cutting machines	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & shearing machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & forming machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other metal forming machines	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
MACHINE TOOL TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		JULY 1991 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	5,847	14,473,978	6,716	15,068,308	5,909	16,595,564	40,326	96,447,800
Boring machines	9	811,684	29	2,458,144	53	1,485,134	124	9,289,592
Drilling machines	81	1,767,423	182	2,096,676	182	2,218,922	813	14,419,112
Gear cutting machines	39	6,598,232	42	10,858,258	11	4,027,477	167	42,923,518
Grinding machines	285	9,241,644	390	12,599,243	398	11,576,263	2,177	69,540,706
NC horizontal lathes	19	1,914,295	25	2,373,736	26	2,567,207	185	20,414,780
NC vertical lathes	9	592,211	2	108,000	4	269,504	25	1,933,734
Non-NC lathes	45	1,357,057	49	2,263,152	27	407,865	302	8,430,361
Milling machines	57	5,134,958	73	6,889,800	27	3,124,857	326	26,052,117
Machining centers	37	5,715,931	24	2,660,799	26	3,139,607	186	30,370,637
Station type machines	4	3,143,769	6	2,649,559	5	4,718,427	35	37,306,825
Other metal cutting machines	341	8,257,118	273	9,131,128	198	4,100,231	1,901	49,449,085
Punching & shearing machines	111	5,445,644	129	3,810,698	132	3,568,471	801	31,973,713
Bending & forming machines	108	5,331,914	257	9,068,216	169	6,262,244	991	43,929,488
Presses	96	6,098,800	210	6,552,960	199	11,252,200	1,190	49,167,087
Forging machines	40	4,435,634	40	5,388,723	57	8,447,700	199	31,156,915
Other metal forming machines	223	22,718,552	234	11,390,564	225	6,748,375	1,599	79,163,308
MACHINE TOOL TOTAL	7,351	103,038,844	8,681	105,367,964	7,678	90,510,048	51,347	641,968,778

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JULY 1990		JULY 1990 YTD		JUNE '91-JULY '91		JULY '90-JULY '91	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	5,058	13,126,467	35,220	94,440,495	16.8%	26.4%	16.8%	26.4%
Boring machines	16	3,194,775	109	12,453,146	231.3%	-53.5%	231.3%	-53.5%
Drilling machines	61	1,735,259	641	11,004,304	198.4%	27.9%	198.4%	27.9%
Gear cutting machines	35	8,746,125	155	33,448,601	-68.6%	-54.0%	-68.6%	-54.0%
Grinding machines	390	11,166,259	2,154	75,281,058	3.7%	3.7%	3.7%	3.7%
NC horizontal lathes	30	3,555,437	270	29,614,652	-13.3%	-27.8%	-13.3%	-27.8%
NC vertical lathes	5	276,808	36	2,963,166	-20.0%	-54.7%	-20.0%	-54.7%
Non-NC lathes	65	899,416	457	10,245,650	-40.4%	-40.4%	-40.4%	-40.4%
Milling machines	33	5,244,894	268	22,703,779	72.7%	31.5%	72.7%	31.5%
Machining centers	24	2,387,041	261	39,839,987	8.3%	1825.9%	8.3%	1825.9%
Station type machines	1	245,000	51	21,066,899	-13.0%	-31.0%	-13.0%	-31.0%
Other metal cutting machines	267	4,712,434	2,388	46,536,558	-25.8%	-7.7%	-25.8%	-7.7%
Punching & shearing machines	143	5,170,365	977	43,232,018	20.6%	20.6%	20.6%	20.6%
Bending & forming machines	136	5,191,915	970	34,821,825	37.2%	61.7%	37.2%	61.7%
Presses	145	5,027,176	1,439	63,773,856	-2.2%	-12.4%	-2.2%	-12.4%
Forging machines	42	5,222,953	2,248	29,333,239	-3.8%	-14.9%	-3.8%	-14.9%
Other metal forming machines	230	7,705,041	1,938	59,856,665	-11.6%			
MACHINE TOOL TOTAL	6,681	83,607,365	47,582	630,615,898				

PRODUCT TYPES	JULY '90-JULY '91		JUNE '91-JULY '91		JULY '90-JULY '91	
	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	14.5%	2.1%	14.5%	2.1%	14.5%	2.1%
Boring machines	13.8%	-25.4%	13.8%	-25.4%	13.8%	-25.4%
Drilling machines	26.8%	31.0%	26.8%	31.0%	26.8%	31.0%
Gear cutting machines	7.7%	28.3%	7.7%	28.3%	7.7%	28.3%
Grinding machines	1.1%	-7.6%	1.1%	-7.6%	1.1%	-7.6%
NC horizontal lathes	-31.5%	-31.1%	-31.5%	-31.1%	-31.5%	-31.1%
NC vertical lathes	-30.6%	-34.7%	-30.6%	-34.7%	-30.6%	-34.7%
Non-NC lathes	-33.9%	-17.7%	-33.9%	-17.7%	-33.9%	-17.7%
Milling machines	21.6%	14.7%	21.6%	14.7%	21.6%	14.7%
Machining centers	-28.7%	-23.8%	-28.7%	-23.8%	-28.7%	-23.8%
Station type machines	-31.4%	77.1%	-31.4%	77.1%	-31.4%	77.1%
Other metal cutting machines	-20.4%	6.3%	-20.4%	6.3%	-20.4%	6.3%
Punching & shearing machines	-18.0%	-26.0%	-18.0%	-26.0%	-18.0%	-26.0%
Bending & forming machines	2.2%	26.2%	2.2%	26.2%	2.2%	26.2%
Presses	-17.3%	-22.9%	-17.3%	-22.9%	-17.3%	-22.9%
Forging machines	-19.8%	6.2%	-19.8%	6.2%	-19.8%	6.2%
Other metal forming machines	-17.5%	32.3%	-17.5%	32.3%	-17.5%	32.3%
MACHINE TOOL TOTAL	7.9%	1.8%	7.9%	1.8%	7.9%	1.8%

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	91,842	16,332,717
Boring machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear cutting machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
NC horizontal lathes	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
NC vertical lathes	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Non-NC lathes	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station type machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other metal cutting machines	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & shearing machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & forming machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other metal forming machines	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
MACHINE TOOL TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		JULY 1991 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	61,461	13,487,177	60,137	11,892,444	55,148	13,352,862	498,694	98,758,788
Boring machines	53	7,001,111	55	3,314,472	51	3,685,439	401	32,804,299
Drilling machines	79	6,287,879	146	3,825,684	73	2,839,334	718	29,088,679
Gear cutting machines	91	4,865,147	57	3,552,435	32	3,543,870	279	31,692,764
Grinding machines	515	14,511,571	382	13,752,180	468	18,779,695	3,540	134,875,681
NC horizontal lathes	197	20,692,781	196	20,231,721	199	18,351,920	1,525	156,478,284
NC vertical lathes	2	1,159,139	6	908,254	10	2,266,809	66	14,502,146
Non-NC lathes	442	10,258,079	402	8,630,438	555	6,940,660	3,090	50,990,570
Milling machines	226	5,441,990	328	6,999,359	374	6,736,063	2,214	49,164,677
Machining centers	199	40,498,256	231	62,377,569	249	23,528,172	1,540	265,103,429
Station type machines	16	13,375,688	8	1,595,456	8	8,078,447	74	34,847,512
Other metal cutting machines	252	18,837,312	314	9,426,321	298	12,496,402	2,112	100,126,989
Punching & shearing machines	109	4,442,498	74	5,337,144	106	5,805,391	604	32,685,362
Bending & forming machines	124	7,388,462	129	5,919,854	156	7,413,619	1,050	48,153,206
Presses	301	9,718,955	131	5,872,448	102	5,129,418	1,171	106,431,746
Forging machines	152	6,220,779	69	5,986,386	35	1,841,002	457	33,844,972
Other metal forming machines	172	10,036,703	180	9,024,713	194	9,644,967	1,582	83,984,810
MACHINE TOOL TOTAL	64,391	194,223,527	62,845	178,646,878	58,058	150,434,070	519,117	1,303,533,914

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JULY 1990		JULY 1990 YTD		% CHANGE JUNE '91-JULY '91		% CHANGE JULY '90-JULY '91	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$2,500	76,189	13,858,003	537,734	89,154,708	-8.3%	12.3%	-27.6%	-3.6%
Boring machines	88	7,667,947	369	23,308,613	-7.3%	11.2%	-42.0%	-51.9%
Drilling machines	220	7,524,179	932	27,563,916	-50.0%	-25.8%	-66.8%	-62.3%
Gear cutting machines	28	3,959,955	286	25,115,163	-43.9%	-0.2%	14.3%	-10.5%
Grinding machines	780	38,441,928	5,105	169,387,746	22.5%	36.6%	-40.0%	-51.1%
NC horizontal lathes	306	27,483,344	1,997	189,198,638	1.5%	-9.3%	-35.0%	-33.2%
NC vertical lathes	28	3,717,107	98	15,742,834	66.7%	149.6%	-64.3%	-39.0%
Non-NC lathes	799	9,013,925	5,112	72,736,825	38.1%	-19.6%	-30.5%	-23.0%
Milling machines	558	9,880,698	3,444	50,306,041	14.0%	-3.8%	-33.0%	-31.8%
Machining centers	272	46,323,978	1,997	248,010,154	7.8%	-62.3%	-8.5%	-49.2%
Station type machines	13	9,081,198	107	37,159,415	0.0%	406.3%	-38.5%	-11.0%
Other metal cutting machines	431	15,980,415	2,949	101,680,135	-5.1%	32.6%	-30.9%	-21.8%
Punching & shearing machines	138	8,166,921	1,052	43,912,030	43.2%	8.8%	-23.2%	-28.9%
Bending & forming machines	162	6,083,506	1,350	48,392,727	20.9%	25.2%	-3.7%	21.9%
Presses	281	6,834,799	1,710	50,267,254	-22.1%	-12.7%	-63.7%	-25.0%
Forging machines	90	6,719,333	597	37,373,610	-49.3%	-69.2%	-61.1%	-72.6%
Other metal forming machines	297	11,238,578	1,630	78,200,032	7.8%	6.9%	-34.7%	-14.2%
MACHINE TOOL TOTAL	80,680	231,975,814	566,469	1,307,509,841	-7.6%	-15.8%	-28.0%	-35.2%

PRODUCT TYPES	% CHANGE YTD '90-YTD '91	
	Units	Value
Used & rebuilt & under \$2,500	-7.3%	10.8%
Boring machines	8.7%	40.7%
Drilling machines	-23.0%	5.5%
Gear cutting machines	-2.4%	26.2%
Grinding machines	-30.7%	-20.4%
NC horizontal lathes	-23.6%	-17.3%
NC vertical lathes	-32.7%	-7.9%
Non-NC lathes	-39.6%	-29.9%
Milling machines	-35.7%	-2.3%
Machining centers	-22.9%	6.9%
Station type machines	-30.8%	-6.2%
Other metal cutting machines	-28.4%	-1.5%
Punching & shearing machines	-42.6%	-25.6%
Bending & forming machines	-22.2%	-0.5%
Presses	-31.5%	111.7%
Forging machines	-23.5%	-9.4%
Other metal forming machines	-2.9%	7.4%
MACHINE TOOL TOTAL	-8.4%	-0.3%

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

RELEASED: October 9, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	\$000	UNITS	\$000
8456300000	Electro-discharge machines	77	5475	6	330
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	53	7685	9	1404
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	12	2496	2	277
100035	Horizontal machining centers, ATC	26	9887	1	682
100045	Machining centers, n.e.c.	95	10303	14	776
200010	Unit construction mach. (single station transfer), NC	5	2147	0	0
200090	Unit construction mach. (single station transfer), non-NC	10	2767	2	272
300010	Multi-station transfer machines, NC	8	14559	0	0
300090	Multi-station transfer machines, non-NC	10	17657	2	4307
8458110010	Horizontal lathes, multiple spindle, NC	21	3042	4	411
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	128	10950	19	1765
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3303	0	0
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	16	3119	3	391
190030	Horizontal engine or toolroom lathes, non-NC	26	356	4	101
190050	Automatic bar and/or chucking mach., single spindle, non-NC	15	174	1	39
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	32	1740	1	19
190090	Horizontal lathes, n.e.c., non-NC	160	4159	15	125
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	24	1672	4	270
991050	Vertical turret lathes, non-NC	26	401	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	43	1601	6	123
8459100000	Way-type unit head machines	2	177	1	139
210080	Other drilling machines, NC	120	8980	19	1428
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	13	246	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	18	613	1	4
290090	Drilling machines, n.e.c., non-NC	662	4580	162	787
310010	Boring-milling mach., horiz. spindle, table, excl. planer, NC	1	394	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	2971	0	0
310070	Boring-milling machines, n.e.c., NC	16	1127	2	167
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	113	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	10	252	0	0
400040	Boring machines, vertical, NC	6	471	6	471
400050	Boring machines, vertical, non-NC	24	1161	0	0
400070	Boring machines, n.e.c., NC	1	148	0	0
400080	Boring machines, n.e.c., non-NC	60	2651	45	846
510080	Milling machines, knee type, NC	14	1110	2	126
590030	Milling machines, knee type, non-NC	70	2609	8	258
610080	Milling machines, excluding knee type, n.e.c., NC	45	16480	4	812
690050	Milling machines, profile, dup., or die sinking, non-NC	3	24	3	24
690070	Milling machines, bed type, non-NC	1	37	0	0
690090	Milling machines, n.e.c., non-NC	193	5793	40	1905
700020	Threading or tapping machines, n.e.c., NC	45	1969	0	0
700080	Threading or tapping machines, n.e.c., non-NC	145	5183	7	115
8460110080	Flat surface grinding machines, NC	35	3469	13	484
190010	Flat surface grinding mach., recip.-table type, non-NC	49	700	3	25
190050	Flat surface grinding machines, n.e.c., non-NC	22	2591	1	97
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	86	28619	10	3685
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	25	4348	8	1550
290030	Grinding machines, internal cylindrical, non-NC	11	786	2	440
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	250	7400	76	1523
310080	Sharpening machines (tool & cutter grinding), NC	20	1457	5	142
390050	Sharpening machines (tool & cutter grinding), non-NC	604	5422	88	734
400060	Honing or lapping machines, NC	1	50	0	0
400080	Honing or lapping machines, non-NC	375	5629	78	1689
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	696	8992	114	1208
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	105	2805	18	224
200010	Shaping or slotting machines, NC	9	1050	0	0
200090	Shaping or slotting machines, non-NC	25	667	0	0
300060	Broaching machines, NC	3	490	1	152
300080	Broaching machines, non-NC	29	1523	4	547
401050	Gear hobbers	40	3188	0	0
401070	Gear shapers	6	672	1	70
401090	Gear cutting machines, n.e.c.	75	33780	9	3933
405060	Gear grinding or finishing machines	46	5283	1	25
500050	Sawing or cutting-off machines, NC	53	2967	13	582
500090	Sawing or cutting-off machines, non-NC	928	11200	87	950
9000000001	Metal cutting machine tools, n.e.c.	482	16119	62	1201
9800000001	Used or rebuilt machine tools	3186	38390	488	7058
9900000001	Machine tools valued at less than \$3,025	25429	14564	3763	1953

Please see notes on last page of the metal forming section.

Cutting Total
Y-T-D Cutting Total
NC Y-T-D Cutting Total*

34856 363084
1086 155061

5238 46647

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	0	0	1	70
8457100015	0	0	0	0	0	0	0	0	2	266
100025	0	0	0	0	0	0	0	0	1	104
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	70	0	0	1	86
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	1842
8458110010	0	0	0	0	0	0	0	0	2	207
110030	0	0	0	0	0	0	0	0	3	258
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	3	391
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	39
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	9
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	6	0	0	0	0	0	0	19	130
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	45
510080	0	0	0	0	0	0	0	0	1	42
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	480
690050	0	0	0	0	0	0	0	0	2	14
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	4	24
8460110080	0	0	0	0	0	0	1	23	0	0
190010	0	0	0	0	0	0	0	0	2	14
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	1002
290010	0	0	0	0	0	0	4	1382	0	0
290030	0	0	0	0	0	0	2	440	0	0
290050	4	107	0	0	0	0	0	0	2	28
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	50
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	16	0	0	40	1032
900060	0	0	0	0	0	0	0	0	0	0
900080	3	33	0	0	0	0	0	0	27	258
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	152
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	25
500050	0	0	0	0	0	0	0	0	13	582
500090	1	5	1	16	0	0	0	0	21	145
9000000001	7	75	0	0	0	0	0	0	9	130
9800000001	0	0	0	0	0	0	0	0	45	1214
9900000001	40	51	0	0	64	81	41	26	181	184
Month Tot	56	276	1	16	66	168	48	1870	395	8824
Y-T-D Tot	539	2977	54	654	728	6409	304	8413	3367	51483
NC YTD Tot*	5	1124	0	0	39	4185	28	4121	190	29797

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	China		France		Germany **		India		Indonesia	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	2	129	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	682	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	2465
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	303	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	7	628	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	111	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	33	1	19	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	8	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	1160	0	0	0	0	0	0	2	692
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	11	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	40	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	47	0	0	11	101	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	20	1	10	12	98	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	3	42	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	2	611	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	1	14	7	400	0	0
9800000001	0	0	2	8	2	4	100	967	0	0
9900000001	0	0	174	119	309	167	21	14	3	5
Month Tot	11	2324	181	187	353	1225	131	2011	6	3161
Y-T-D Tot	500	16863	1088	10540	2464	38928	466	9104	29	4456
NC YTD Tot*	35	11903	29	6443	156	25245	11	2014	3	723

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	1	32	0	0	0	0	0	0
8457100015	0	0	0	0	1	92	0	0	1	160
100025	0	0	0	0	0	0	0	0	1	173
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	371
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	272	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	58	0	0	0	0	1	146
110030	0	0	7	512	4	501	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	3	54
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	19
190090	0	0	0	0	0	0	0	0	8	85
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	270
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	3	41
8459100000	0	0	0	0	0	0	0	0	1	139
210080	0	0	0	0	2	102	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	4
290090	0	0	0	0	61	272	0	0	15	77
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	56
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	6	471	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	20
610080	0	0	0	0	1	150	0	0	1	105
690050	0	0	0	0	0	0	0	0	1	10
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	32	1847	0	0	8	57
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	74	1	10
8460110080	4	109	0	0	0	0	0	0	5	243
190010	0	0	0	0	0	0	0	0	1	10
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	3	643	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	266
310080	0	0	0	0	0	0	0	0	3	97
390050	0	0	30	387	39	232	1	4	2	14
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	84	2	175	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	26	7	81	12	240	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	8	0	0	0	0	5	70
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	531	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	3	1505	2	670	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	23	406	15	163	1	21	0	0	8	40
9000000001	0	0	0	0	13	148	0	0	6	52
9800000001	1	33	7	76	6	81	2	555	197	1446
9900000001	0	0	53	65	333	103	50	42	1386	409
Month Tot	30	574	128	3530	519	5818	56	849	1681	4446
Y-T-D Tot	675	8081	3893	37588	2444	28405	160	2485	6523	33602
NC YTD Tot*	14	3640	89	9876	49	9742	5	129	135	13156

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	1	33	1	66
8457100015	0	0	0	0	0	0	0	0	5	886
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	47
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	14	0	0	0	0	1	27
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	110
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	8	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	3	141	0	0	0	0	0	0
610080	0	0	1	77	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	2	84
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	97	0	0	0	0
210080	1	188	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	2	131	2	37
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	9	440
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	5	15	170	1	15
900060	0	0	0	0	0	0	0	0	0	0
900080	3	30	0	0	5	49	1	6	4	18
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	1	92
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	5	52	0	0	0	0	0	0
9000000001	0	0	1	64	1	10	0	0	0	0
9800000001	0	0	1	3	0	0	4	17	21	13
9900000001	33	26	223	129	0	0	23	19	270	85
Month Tot	37	245	236	488	9	164	46	375	320	1920
Y-T-D Tot	452	3395	1800	5156	182	1173	655	3880	1052	7929
NC YTD Tot*	6	1317	16	1241	1	27	17	2258	26	3220

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	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	7	249
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	92	0	0	1	99	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	6	31
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	41	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	8	588
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	57	255	0	0	0	0	8	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	44	801
510080	0	0	0	0	0	0	0	0	1	84
590030	0	0	1	18	0	0	0	0	1	27
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	25
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	49	672
310080	0	0	0	0	0	0	0	0	2	45
390050	0	0	0	0	0	0	0	0	1	4
400060	0	0	0	0	0	0	0	0	0	0
400080	1	15	3	30	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	30	9	81	0	0	16	172	7	55
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	4	2	8	0	0	1	14	5	80
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	16	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	70
401090	0	0	0	0	1	1055	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	4	19	0	0	1	6	7	77
9000000001	0	0	1	28	0	0	1	15	15	265
9800000001	3	7	31	1096	0	0	18	611	48	928
9900000001	55	4	85	70	0	0	56	67	363	287
Month Tot	63	59	196	1753	1	1055	94	983	574	4326
Y-T-D Tot	558	1696	2359	17403	153	17624	582	7219	3829	37620
NC YTD Tot*	13	800	98	9424	4	324	18	1822	99	12530

Please see notes on last page of the metal forming section.

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RELEASED: October 9, 1991

Metal Forming Machine Tools

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
8454300010 Die casting machines	197	4314	33	510
8462100030 Headers and upsetters, including cold headers	33	13295	8	4624
100050 Forging or die stamping machines, and hammers, n.e.c.	166	17862	49	3823
210080 Bending, folding, straight. or flat. mach., incl presses, NC	158	17386	21	2487
290030 Press brakes, non-NC	68	2615	4	163
290040 Bending rolls, non-NC	40	1085	5	123
290050 Bending, folding, straight., or flat., n.e.c., non-NC	725	22843	139	3489
310080 Shearing machines, NC	65	4996	11	561
390050 Shearing machines, non-NC	200	5033	51	864
410080 Punching or notching mach., incl. comb. punch & shear, NC	67	10820	5	810
490050 Punching or notching mach., incl. comb. punch & sh., non-NC	469	11125	65	1333
910060 Hydraulic presses, NC	18	773	6	297
910090 Hydraulic presses, non-NC	362	10693	69	4286
990030 Presses, n.e.c., NC	128	6636	8	930
990040 Presses, mechanical, non-NC	114	9748	11	673
990060 Presses, n.e.c., non-NC	568	21318	105	5066
8463100080 Draw benches for bars, tubes, profiles, wire or the like	145	5647	5	149
200080 Thread rolling machines	25	774	2	61
300080 Machines for working wire	453	13698	73	1866
900080 Metal forming machine tools, n.e.c.	779	54731	112	4163
9800000002 Used or rebuilt machine tools	2207	36053	329	6579
9900000002 Machine tools valued at less than \$3,025	9504	7441	1329	1005
Forming Total			2440	43863
Y-T-D Forming Total	16491	278885		
NC Y-T-D Forming Total	436	40612		
Cutting and Forming Totals:				
Monthly Total			7678	90510
Y-T-D Total	51347	641969		
NC Y-T-D Total*	1522	195673		

Other Manufacturing Technology

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
1000000000 Machine tool parts and accessories	0	395349	0	60178
2000000000 Parts for working rubber or plastics - heading 8477	0	158152	0	27060
2710003070 Quenching or cutting oils	0	3977	0	783
8428900010 Industrial robots for lifting, handling, loading or unload	358	3559	6	102
8431390090 Parts industrial robots, handling and loading - heading 8428	0	60393	0	8962
8456100000 Laser, light or photon beam for working any material	375	22992	49	2900
200000 Ultrasonic process for working any material	42	1022	4	113
8477106010 Injection molding mach., for rubber or oth. thermosetting	160	10630	64	3545
106070 Injection molding machines, for thermoplastics	237	27766	42	3962
200005 Extruders; rubber or other thermosetting mat., single screw	84	6446	18	1322
200015 Extruders; rubber or thermosetting, other incl. multi. screw	96	8693	11	1291
200030 Extruders; thermoplastics, single screw	321	14394	76	3716
200060 Extruders; thermoplastics, other incl. multi. screw	64	6744	8	653
300000 Blow molding machines	332	19228	30	537
400000 Vacuum-molding and other thermoforming machines	657	4958	56	528
510010 Machines for molding or retreading pneumatic tires	1848	8950	112	518
510090 Machines for molding or otherwise forming inner tubes	378	8615	53	342
590000 Machines for molding or otherwise forming n.e.c.	973	15795	91	1548
800000 Machines for working rubber or plastics n.e.c.	2959	42123	500	5459
8479899040 Industrial robots, n.e.c.	3363	37959	596	5630
908040 Industrial robot parts	0	21469	0	3005
8537100030 Numerical controls for controlling machine tools	966	13813	135	1891
9024100000 Machines and appliances for testing metals	0	40933	0	6580
9031100000 Machines for balancing mechanical parts	0	16906	0	3452
300000 Profile projectors	0	2979	0	674
9032810040 Industrial process control instr., hydraulic or pneumatic	553902	30033	63171	5278

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "NC Y-T-D Total" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	168
210080	1	29	0	0	0	0	0	0	2	196
290030	0	0	0	0	0	0	0	0	1	4
290040	0	0	0	0	0	0	0	0	2	17
290050	17	109	0	0	0	0	0	0	18	245
310080	0	0	3	99	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	9	156
410080	0	0	0	0	0	0	0	0	0	0
490050	1	28	0	0	17	56	0	0	7	343
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	231	0	0	0	0	0	0	8	64
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	260	1	38	0	0	1	7	4	250
900080	0	0	0	0	1	25	0	0	11	95
9800000002	2	25	0	0	0	0	8	36	46	482
9900000002	9	12	0	0	0	0	4	3	153	146
Month Tot	45	695	4	137	18	81	13	46	263	2166
Y-T-D Tot	307	2693	12	324	250	1885	124	4069	1996	28594
NC YTD Tot	3	181	3	99	20	554	5	585	53	6732
C&F Month	101	971	5	153	84	248	61	1917	658	10990
C&F Y-T-D	846	5671	66	979	978	8294	428	12482	5363	80077
C&F NC YTD*	8	1304	3	99	59	4739	33	4706	243	36529

Other Manufacturing Technology

1000000000	0	600	0	107	0	671	0	686	0	9190
2000000000	0	150	0	136	0	432	0	491	0	5177
2710003070	0	0	0	0	0	0	0	0	0	145
8428900010	0	0	0	0	0	0	0	0	4	75
8431390090	0	276	0	0	0	13	0	4	0	815
8456100000	2	39	0	0	0	0	0	0	3	306
200000	0	0	0	0	0	0	0	0	1	18
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	14	1427
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	7	741
200030	3	78	0	0	16	1239	0	0	0	0
200060	0	0	0	0	0	0	0	0	3	362
300000	0	0	0	0	2	45	0	0	1	277
400000	0	0	0	0	0	0	0	0	2	88
510010	0	0	0	0	0	0	13	332	1	41
510090	0	0	0	0	5	35	0	0	0	0
590000	4	25	6	100	0	0	0	0	21	619
800000	3	111	0	0	3	112	1	84	291	2383
8479899040	0	0	0	0	0	0	0	0	418	3005
908040	0	20	0	0	0	3	0	0	0	1155
8537100030	0	0	1	7	0	0	8	105	6	58
9024100000	0	95	0	4	0	8	0	73	0	536
9031100000	0	0	0	0	0	0	0	0	0	1344
300000	0	0	0	0	0	0	0	0	0	13
9032810040	1572	94	8	7	2645	137	92	30	2332	306

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	1	24	5	15	0	0	1	19
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	30	2129	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	2	83	0	0	0	0
290050	1	43	1	19	6	140	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	141	0	0	1	138	0	0	0	0
490050	7	88	0	0	2	32	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	2	131	1	21	0	0	0	0	0	0
990030	0	0	1	279	0	0	0	0	0	0
990040	1	220	0	0	4	182	0	0	0	0
990060	1	301	0	0	3	800	0	0	0	0
8463100080	0	0	0	0	1	14	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	9	2	144	1	13	0	0	0	0
900080	1	41	0	0	1	980	1	16	0	0
9800000002	0	0	0	0	1	13	0	0	0	0
9900000002	0	0	40	34	202	159	12	14	0	0
Month Tot	15	975	76	2650	229	2570	13	30	1	19
Y-T-D Tot	294	18307	642	16658	1213	27327	72	820	96	3456
NC YTD Tot	16	1571	32	2613	29	3414	1	140	0	0
C&F Month	26	3299	257	2837	582	3795	144	2041	7	3180
C&F Y-T-D	794	35170	1730	27198	3677	66255	538	9924	125	7912
C&F NC YTD*	51	13474	61	9056	185	28659	12	2154	3	723

Other Manufacturing Technology

1000000000	0	1216	0	4513	0	5197	0	274	0	21
2000000000	0	39	0	951	0	2525	0	109	0	806
2710003070	0	0	0	19	0	0	0	0	0	48
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	68	0	186	0	653	0	7	0	391
8456100000	0	0	4	121	3	210	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	43	1	268	0	0	0	0
106070	1	107	0	0	5	516	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	15	385	0	0	0	0
200060	0	0	0	0	2	79	0	0	0	0
300000	0	0	0	0	1	15	0	0	0	0
400000	0	0	0	0	1	3	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	1	4	1	3	0	0	0	0
590000	0	0	7	131	10	232	0	0	0	0
800000	0	0	0	0	22	522	0	0	0	0
8479899040	1	63	2	123	51	1251	0	0	0	0
908040	0	0	0	23	0	56	0	0	0	0
8537100030	0	0	20	287	20	283	0	0	0	0
9024100000	0	3239	0	104	0	233	0	150	0	0
9031100000	0	10	0	418	0	20	0	0	0	0
300000	0	0	0	3	0	3	0	0	0	0
9032810040	3692	247	2247	128	5955	364	2165	114	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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Metal Forming	Italy		Japan		Korea		Malaysia		Mexico	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	10	109	0	0	0	0	0	0	1	219
8462100030	0	0	3	2991	1	351	0	0	1	39
100050	9	656	0	0	0	0	0	0	5	535
210080	0	0	0	0	3	830	0	0	4	232
290030	0	0	0	0	0	0	0	0	3	159
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	12	798
310080	0	0	3	156	0	0	0	0	2	154
390050	0	0	0	0	0	0	1	5	8	181
410080	0	0	0	0	0	0	0	0	1	134
490050	0	0	0	0	0	0	0	0	24	724
910060	0	0	0	0	0	0	0	0	1	103
910090	2	57	0	0	5	103	1	19	43	433
990030	1	284	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	9	265	1	1384	0	0	51	1005
8463100080	0	0	1	87	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	2	61
300080	0	0	0	0	0	0	0	0	4	30
900080	0	0	4	73	19	1364	1	18	15	184
9800000002	2	78	5	17	3	984	0	0	109	888
9900000002	135	39	101	70	29	29	6	5	186	176
Month Tot	159	1223	126	3660	61	5044	9	47	472	6052
Y-T-D Tot	450	6065	1129	23699	563	16841	102	860	3329	35428
NC YTD Tot	4	606	33	3971	33	3313	1	29	51	4984
C&F Month	189	1797	254	7190	580	10861	65	896	2153	10497
C&F Y-T-D	1125	14146	5022	61287	3007	45246	262	3345	9852	69030
C&F NC YTD*	18	4246	122	13847	82	13055	6	158	186	18140

Other Manufacturing Technology

1000000000	0	1353	0	4992	0	1840	0	308	0	3883
2000000000	0	340	0	726	0	703	0	111	0	1823
2710003070	0	0	0	74	0	0	0	0	0	15
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	14	0	357	0	879	0	0	0	563
8456100000	0	0	11	422	4	109	0	0	1	198
200000	0	0	1	20	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	56	2772
106070	1	112	2	295	0	0	0	0	10	890
200005	0	0	7	185	9	1093	0	0	2	44
200015	0	0	0	0	0	0	0	0	1	150
200030	0	0	9	570	0	0	2	49	7	285
200060	0	0	0	0	0	0	0	0	1	152
300000	14	13	0	0	0	0	0	0	4	50
400000	0	0	1	9	42	362	0	0	1	8
510010	0	0	0	0	0	0	0	0	1	25
510090	0	0	0	0	0	0	0	0	1	32
590000	0	0	5	112	5	40	0	0	6	54
800000	0	0	8	85	0	0	3	125	48	667
8479899040	43	258	6	61	1	3	0	0	4	237
908040	0	128	0	522	0	14	0	0	0	384
8537100030	3	42	0	0	11	111	1	9	1	8
9024100000	0	17	0	941	0	198	0	0	0	161
9031100000	0	11	0	70	0	1122	0	0	0	198
300000	0	0	0	154	0	0	0	3	0	417
9032810040	995	1096	751	125	1146	104	207	10	1056	111

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	3	1243	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	3	160	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	23	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	24	1	50
310080	0	0	1	56	0	0	0	0	0	0
390050	0	0	28	458	0	0	0	0	0	0
410080	1	253	0	0	0	0	0	0	1	144
490050	1	4	0	0	0	0	0	0	1	3
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	30	0	0	0	0	1	14
990030	0	0	0	0	0	0	0	0	2	107
990040	0	0	5	227	0	0	0	0	1	45
990060	0	0	1	20	0	0	0	0	1	181
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	42	4	58	1	18	0	0
900080	4	20	2	83	0	0	0	0	1	31
9800000002	1	14	2	15	0	0	1	88	2	35
9900000002	24	12	18	18	67	57	6	7	0	0
Month Tot	34	1546	61	971	74	275	9	137	11	608
Y-T-D Tot	693	7733	281	4220	144	3636	217	1435	200	5266
NC YTD Tot	15	1685	12	807	4	215	3	181	9	814
C&F Month	71	1791	297	1459	83	439	55	513	331	2529
C&F Y-T-D	1145	11128	2081	9376	326	4810	872	5315	1252	13194
C&F NC YTD*	21	3002	28	2048	5	242	20	2439	35	4034

Other Manufacturing Technology

1000000000	0	630	0	971	0	184	0	487	0	10754
2000000000	0	575	0	397	0	1028	0	28	0	148
2710003070	0	0	0	16	0	27	0	0	0	86
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	142	0	61	0	68	0	291	0	0
8456100000	2	25	0	0	0	0	1	16	2	234
200000	0	0	0	0	1	34	0	0	0	0
8477106010	0	0	2	200	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	1	417
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	20	81	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	36	157
590000	2	28	1	9	0	0	0	0	0	0
800000	0	0	4	46	0	0	1	15	23	48
8479899040	0	0	1	25	0	0	3	19	1	10
908040	0	0	0	0	0	0	0	450	0	24
8537100030	0	0	11	158	0	0	0	0	1	8
9024100000	0	25	0	66	0	31	0	4	0	150
9031100000	0	0	0	70	0	0	0	0	0	28
300000	0	0	0	0	0	0	0	0	0	42
9032810040	8682	1104	1404	98	1696	89	1464	77	777	387

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

Metal Forming	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	0	0	15	123
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	260	0	0	0	0	0	0	2	75
210080	0	0	3	112	0	0	0	0	5	928
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	72	1821	0	0	0	0	10	241
310080	0	0	0	0	2	97	0	0	0	0
390050	0	0	0	0	0	0	1	5	4	60
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	2	19	0	0	0	0	3	37
910060	0	0	0	0	0	0	0	0	5	194
910090	0	0	1	28	0	0	2	45	10	3405
990030	4	260	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	1	205	0	0	0	0	25	611
8463100080	0	0	1	12	0	0	0	0	2	35
200080	0	0	0	0	0	0	0	0	0	0
300080	5	174	2	104	0	0	0	0	34	720
900080	0	0	16	431	0	0	1	13	34	789
9800000002	44	550	5	158	0	0	7	126	91	3072
9900000002	0	0	15	16	0	0	17	15	305	191
Month Tot	54	1244	118	2906	2	97	28	203	545	10481
Y-T-D Tot	238	6353	1089	17432	3	123	249	1528	2798	44133
NC YTD Tot	11	1077	48	2089	2	97	1	41	47	4814
C&F Month	117	1303	314	4659	3	1152	122	1186	1119	14808
C&F Y-T-D	796	8049	3448	34835	156	17747	831	8747	6627	81753
C&F NC YTD*	24	1877	146	11513	6	421	19	1863	146	17344

Other Manufacturing Technology

1000000000	0	639	0	3653	0	192	0	916	0	6900
2000000000	0	454	0	609	0	0	0	300	0	9002
2710003070	0	33	0	16	0	0	0	0	0	304
8428900010	0	0	2	27	0	0	0	0	0	0
8431390090	0	82	0	459	0	0	0	375	0	3258
8456100000	0	0	3	73	0	0	0	0	13	1148
200000	0	0	1	40	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	3	192	1	69
106070	0	0	3	234	0	0	0	0	6	381
200005	0	0	0	0	0	0	0	0	0	0
200015	1	139	0	0	0	0	0	0	2	260
200030	0	0	1	16	12	295	3	198	7	183
200060	0	0	2	60	0	0	0	0	0	0
300000	0	0	0	0	0	0	3	59	5	78
400000	0	0	5	38	0	0	0	0	4	20
510010	0	0	0	0	0	0	0	0	77	38
510090	1	14	0	0	0	0	0	0	8	97
590000	0	0	2	30	0	0	3	5	19	163
800000	0	0	0	0	0	0	6	40	87	1223
8479899040	0	0	8	49	0	0	29	316	28	211
908040	0	0	0	164	0	0	0	12	0	51
8537100030	1	11	43	678	0	0	0	0	8	127
9024100000	0	0	0	324	0	32	0	0	0	189
9031100000	0	9	0	19	0	0	0	0	0	134
300000	0	0	0	0	0	0	0	0	0	40
9032810040	13250	46	5084	238	0	0	1182	66	4769	301

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	1	15	1	15
Denmark	7	114	15	12	22	126
Finland	1	4	0	0	1	4
Greece	0	0	0	0	0	0
Hungary	8	5	1	7	9	11
Iceland	0	0	0	0	0	0
Ireland	0	0	11	882	11	882
Luxembourg	0	0	0	0	0	0
Norway	42	542	30	5	72	546
Poland	0	0	0	0	0	0
Portugal	5	3	1	7	6	11
Romania	56	5	1	25	57	30
Sweden	8	38	29	45	37	83
Turkey	0	0	18	4329	18	4329
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1047	6472	830	16949	1877	23421
	=====	=====	=====	=====	=====	=====
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	32	32	32	32
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	33	303	0	0	33	303
Dominican Rep	2	54	0	0	2	54
El Salvador	0	0	3	62	3	62
Guatemala	0	0	3	3	3	3
Haiti	0	0	0	0	0	0
Honduras	58	44	31	165	89	210
Jamaica	0	0	0	0	0	0
Panama	4	3	1	46	5	48
Trinidad	1	15	0	0	1	15
Oth N & C Am.	5	3	1	30	6	33
TOTAL	2179	13691	806	8556	2985	22247
	=====	=====	=====	=====	=====	=====
SOUTH AMERICA						
Argentina	9	24	7	244	16	268
Bolivia	1	5	0	0	1	5
Chile	22	695	9	85	31	780
Colombia	0	0	47	573	47	573
Ecuador	0	0	14	66	14	66
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	2	21	0	0	2	21
Oth South Am.	0	0	0	0	0	0
TOTAL	176	3599	118	1216	294	4815
	=====	=====	=====	=====	=====	=====
OCEANIA						
New Zealand	0	0	1	28	1	28
Oth Oceania	0	0	0	0	0	0
TOTAL	56	276	46	723	102	999
	=====	=====	=====	=====	=====	=====

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	115	459	35	535	150	994
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	12	31	15	34	27	65
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	6	31	0	0	6	31
Pakistan	0	0	0	0	0	0
Philippines	2	3	91	2091	93	2094
Qatar	0	0	0	0	0	0
Saudi Arabia	28	227	66	116	94	343
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	4	5	2	44	6	49
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	8	48	8	48
TOTAL	1637	20916	568	15464	2205	36380
	=====	=====	=====	=====	=====	=====
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	93	1473	1	31	94	1505
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	30	19	0	0	30	19
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	36	415	36	415
South Africa	13	195	18	178	31	373
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	7	75	7	75
Zimbabwe	0	0	0	0	0	0
Oth Africa	7	5	10	255	17	260
TOTAL	143	1692	72	954	215	2646
	=====	=====	=====	=====	=====	=====

Note: Region totals include top countries detailed by product as well as countries listed above.

** West and East Germany are combined.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the

total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.

* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: October 9, 1991

U.S. IMPORTS - Metal Cutting Machine Tools -

July 91

		TOTAL YTD		TOTAL MO.	
		UNITS	\$000	UNITS	\$000
8456301020	Traveling wire electro-discharge machines	414	30770	87	5664
301050	Electro-discharge machines, n.e.c., NC	118	11052	15	1043
301070	Electro-discharge machines, n.e.c., non-NC	195	2032	18	340
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	997	82576	176	13667
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	73	12263	18	1950
100035	Horizontal machining centers, ATC	297	62707	29	3974
100045	Machining centers, n.e.c.	173	107558	26	3938
200010	Unit construction mach. (single station transfer), NC	24	6249	2	1794
200090	Unit construction mach. (single station transfer), non-NC	6	1677	2	738
300010	Multi-station transfer machines, NC	9	11578	1	3591
300090	Multi-station transfer machines, non-NC	33	15272	3	1956
8458110010	Horizontal lathes, multiple spindle, NC	162	26886	24	4448
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1097	83200	142	9980
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	232	33692	28	3477
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	34	12700	5	446
190030	Horizontal engine or toolroom lathes, non-NC	2137	19746	347	3022
190050	Automatic bar and/or chucking mach., single spindle, non-NC	229	6307	18	129
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	24	2885	8	559
190090	Horizontal lathes, n.e.c., non-NC	339	14384	33	1054
911060	Vertical turret lathes, multiple spindle, NC	7	1415	4	866
911080	Vertical turret lathes, n.e.c., NC	29	7013	6	1401
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	17	3187	0	0
991050	Vertical turret lathes, non-NC	74	1343	17	668
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	287	6326	132	1509
8459100000	Way-type unit head machines	2	71	0	0
210080	Other drilling machines, NC	240	18436	27	1890
290040	Drilling machines, multiple spindle, non-NC	13	1216	1	159
290050	Drilling machines, radial, non-NC	140	1440	16	98
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	40	375	5	37
290090	Drilling machines, n.e.c., non-NC	285	7621	24	655
310010	Boring-milling mach., horiz. spindle, table, excl. planer, NC	12	5575	1	378
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	55	9964	6	1215
310070	Boring-milling machines, n.e.c., NC	13	3848	1	1062
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	271	1	247
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	66	4047	9	347
400040	Boring machines, vertical, NC	8	1188	1	9
400050	Boring machines, vertical, non-NC	38	744	5	70
400070	Boring machines, n.e.c., NC	12	3848	0	0
400080	Boring machines, n.e.c., non-NC	193	3319	27	358
510080	Milling machines, knee type, NC	237	4354	12	328
590030	Milling machines, knee type, non-NC	1381	11789	264	2520
610080	Milling machines, excluding knee type, n.e.c., NC	308	23694	47	2111
690050	Milling machines, profile, dup., or die sinking, non-NC	23	632	8	28
690070	Milling machines, bed type, non-NC	24	672	6	136
690090	Milling machines, n.e.c., non-NC	241	8025	37	1614
700020	Threading or tapping machines, n.e.c., NC	110	6738	13	988
700080	Threading or tapping machines, n.e.c., non-NC	98	2910	17	472
8460110080	Flat surface grinding machines, NC	80	6588	13	664
190010	Flat surface grinding mach., recip.-table type, non-NC	251	3490	20	295
190050	Flat surface grinding machines, n.e.c., non-NC	724	8981	85	809
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	295	49258	31	6775
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	209	6177	25	1482
290030	Grinding machines, internal cylindrical, non-NC	112	3762	6	304
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	478	16289	71	1680
310080	Sharpening machines (tool & cutter grinding), NC	100	4156	17	414
390050	Sharpening machines (tool & cutter grinding), non-NC	345	3893	29	354
400060	Honing or lapping machines, NC	18	1702	1	130
400080	Honing or lapping machines, non-NC	109	6621	20	1487
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	58	3615	12	511
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	761	20343	138	3875
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	46	0	0
200010	Shaping or slotting machines, NC	3	301	1	3
200090	Shaping or slotting machines, non-NC	36	3133	5	520
300060	Broaching machines, NC	5	2814	0	0
300080	Broaching machines, non-NC	11	3826	3	699
401020	Gear cutting for bevel gears	1	518	0	0
401030	Gear hobbors	106	14072	27	2140
401040	Gear shapers	30	3417	1	268
401060	Gear cutting machines, n.e.c.	114	2233	0	0
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	28	11922	4	1136
500050	Sawing or cutting-off machines, NC	66	9909	5	58
500090	Sawing or cutting-off machines, non-NC	870	17937	108	2215
9000000001	Metal cutting machine tools, n.e.c.	178	8660	26	494
9800000001	Used or rebuilt machine tools	1447	27658	247	4567
9900000001	Machine tools valued at less than \$3,025	486374	49657	53590	6717
Cutting Total				56154	118532
Y-T-D Cutting Total		503381	977509		
NC Y-T-D Cutting Total		5342	655072		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools -						July 91		Germany **	
Belgium		Brazil		Canada		France			
Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	1	156
301070	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	1	132	1	120
100025	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	1	290
100045	0	0	0	2	841	0	0	6	643
200010	0	0	0	0	0	0	0	2	1794
200090	0	0	0	1	426	0	0	1	313
300010	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	1	1693
8458110010	0	0	0	0	0	0	0	6	1344
110030	0	0	0	0	0	0	0	2	381
110050	0	0	0	0	0	1	95	5	586
110090	0	0	0	0	0	0	0	0	0
190030	0	0	53	408	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0
90090	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	1	931	5	471
915050	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	1	88	0	0
995090	0	0	112	843	1	10	0	1	4
8459100000	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	1	108	0	0
290040	0	0	0	0	0	0	0	0	0
290050	0	0	1	10	0	0	0	0	0
290070	0	0	0	0	0	0	0	2	18
290090	1	239	1	5	0	0	0	1	126
310010	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	5	1199
310070	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	1	52
400040	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	14	315	0	0
510080	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	1	22
610080	0	0	1	6	0	0	0	3	196
690050	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	1	265
700020	0	0	0	0	0	0	0	1	354
700080	0	0	0	0	0	0	0	7	182
8460110080	0	0	0	0	0	0	0	1	103
190010	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	2	0	0	0
210080	0	0	0	0	0	0	0	9	3456
290010	0	0	0	0	10	122	0	0	0
290030	0	0	0	0	0	0	0	1	29
290050	0	0	0	0	0	1	4	23	833
310080	0	0	0	0	0	0	0	9	185
390050	0	0	0	0	0	0	0	8	174
400060	0	0	0	0	0	0	0	1	130
400080	0	0	0	0	0	0	0	2	357
900060	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	22	10	34	315
8461100060	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	7	0	0	0
300060	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	25	0	0	0
401020	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	25	1674
401040	0	0	0	0	0	0	0	1	268
401060	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	2	363
500050	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	30	577	1	31	703
9000000001	0	0	0	0	0	12	84	4	131
9800000001	1	136	0	0	9	109	2	8	342
9900000001	44	13	0	0	267	87	311	245	175
Month Tot	46	388	168	1271	326	2226	356	432	19446
Y-T-D Tot	70	1685	434	5416	1759	11453	1344	5337	249442
NC YTD Tot	4	261	13	1501	28	2581	36	6247	175909

Please see notes on last page of the metal forming section.

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	U.S. IMPORTS - Metal Cutting Machine Tools -						July 91			
	Italy		Japan		Korea		Singapore		Spain	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	54	4326	0	0	0	0	0	0
301050	0	0	7	723	0	0	0	0	0	0
301070	0	0	4	88	0	0	0	0	0	0
8457100015	1	70	109	9372	4	190	13	701	0	0
100025	0	0	5	997	0	0	0	0	0	0
100035	0	0	28	3683	0	0	0	0	0	0
100045	0	0	4	691	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	1	3591	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	14	2947	0	0	0	0	0	0
110030	0	0	79	6136	11	760	0	0	0	0
110050	0	0	18	2368	3	358	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	10	222	12	117	22	283	1	16
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	10	722	0	0	0	0	0	0
911060	0	0	4	866	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	4	537	0	0	0	0	0	0
995090	0	0	0	0	8	543	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	26	1782	0	0	0	0	0	0
290040	0	0	1	159	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	19
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	191	0	0	0	0	18	61
310010	0	0	1	378	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	1	247	0	0	0	0	0	0
390050	0	0	1	264	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	5	70	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	5	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	568	9	390	0	0	0	0	111	807
610080	0	0	5	1164	0	0	2	82	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	1	53	0	0	0	0	0	0
690090	0	0	3	387	0	0	0	0	17	210
700020	0	0	12	634	0	0	0	0	0	0
700080	0	0	1	15	0	0	0	0	0	0
8460110080	7	49	0	0	0	0	0	0	0	0
190010	0	0	3	142	0	0	4	71	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	8	1686	0	0	0	0	0	0
290010	1	29	3	182	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	422	5	141	0	0	0	0	0	0
310080	0	0	5	49	0	0	0	0	0	0
390050	0	0	1	5	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	5	338	0	0	0	0	0	0
900060	1	397	0	0	0	0	0	0	0	0
900080	42	1683	60	1660	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	3	0	0	0	0	0	0
200090	0	0	1	52	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	674	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	144	0	0	0	0	0	0
500050	1	14	0	0	0	0	0	0	0	0
500090	4	23	19	435	0	0	0	0	1	9
9000000001	0	0	8	231	0	0	0	0	0	0
9800000001	5	75	43	1893	0	0	15	3	2	48
9900000001	1926	330	5586	793	2205	197	15	3	0	0
Month Tot	1997	3734	6164	51361	2243	2165	71	1142	151	1171
Y-T-D Tot	23195	26321	36045	422713	13474	11156	633	6621	1289	12154
NC YTD Tot	50	10140	3121	357105	94	6460	71	3392	149	1101

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools -

July 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	11	892	7	46	0	0	15	400
301050	0	0	6	153	1	11	0	0	0	0
301070	0	0	6	148	8	105	0	0	0	0
8457100015	0	0	0	0	23	1770	19	1041	5	270
100025	0	0	0	0	8	791	0	0	5	162
100035	0	0	0	0	0	0	0	0	0	0
100045	1	403	0	0	2	420	5	487	6	454
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	2	263	0	0	0	0	0	0
8458110010	0	0	0	0	1	52	0	0	3	105
110030	0	0	10	1105	22	1143	5	304	13	151
110050	0	0	0	0	1	70	0	0	0	0
110090	0	0	4	336	0	0	1	111	0	0
190030	0	0	0	0	87	701	31	469	131	806
190050	0	0	0	0	17	124	0	0	1	4
190070	0	0	7	531	0	0	0	0	1	27
190090	0	0	0	0	4	14	10	259	9	58
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	1	8	11	35	0	0	0	0
995090	0	0	1	21	0	0	1	9	8	78
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	2	8	1	8	11	53
290070	3	19	0	0	0	0	0	0	0	0
290090	0	0	1	34	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	16
310070	0	0	0	0	0	0	1	1062	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	30	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	9
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	12	38	0	0	0	0
510080	0	0	0	0	8	199	4	129	0	0
590030	0	0	0	0	118	597	0	0	23	135
610080	0	0	0	0	34	583	2	81	0	0
690050	0	0	0	0	8	28	0	0	0	0
690070	0	0	0	0	5	83	0	0	0	0
690090	0	0	0	0	12	52	1	22	3	678
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	7	257	1	11	1	6	0	0
8460110080	0	0	1	400	1	55	0	0	3	57
190010	0	0	0	0	7	9	0	0	6	73
190050	0	0	0	0	60	446	2	14	22	347
210080	0	0	9	1486	0	0	2	122	3	25
290010	0	0	9	1066	0	0	2	84	0	0
290030	0	0	4	245	1	30	0	0	0	0
290050	0	0	1	210	0	0	3	24	37	46
310080	0	0	2	88	0	0	0	0	1	92
390050	0	0	4	56	0	0	15	109	1	11
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	5	732	0	0	7	51	1	11
900060	0	0	0	0	6	46	0	0	5	68
900080	0	0	3	44	0	0	2	30	12	89
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	452	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	393	0	0	1	73	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	629	0	0	0	0	0	0
500050	0	0	0	0	4	44	0	0	0	0
500090	0	0	0	0	17	101	0	0	5	176
9000000001	0	0	0	0	0	0	1	42	1	7
9800000001	2	15	2	4	12	207	138	1605	8	125
9900000001	152	190	45	47	33154	3448	26	33	9614	1238
Month Tot	158	626	145	9609	33661	11297	281	6174	9955	5770
Y-T-D Tot	1886	12957	821	48033	341589	67161	1793	50067	73712	40273
NC YTD Tot	12	6362	168	22653	539	19496	239	28947	407	12918

Please see notes on last page of the metal forming section.

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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

RELEASED: October 9, 1991

Metal Forming Machine Tools

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
8454300010 Die casting machines	163	20236	13	1397
8462100030 Headers and upsetters, including cold headers	53	10566	2	281
100050 Forging or die stamping machines, and hammers, n.e.c.	404	23279	33	1560
210080 Bending, folding, straight. or flat. mach., incl presses, NC	315	24215	69	4140
290030 Press brakes, non-NC	132	4657	12	425
290040 Bending rolls, non-NC	36	1963	3	94
290050 Bending, folding, straight., or flat., n.e.c., non-NC	567	18218	72	2755
310080 Shearing machines, NC	10	1510	0	0
390050 Shearing machines, non-NC	207	6259	44	1217
410080 Punching or notching mach., incl. comb. punch & shear, NC	126	18811	27	3694
490050 Punching or notching mach., incl. comb. punch & sh., non-NC	261	6105	35	895
910060 Hydraulic presses, NC	8	5082	0	0
910090 Hydraulic presses, non-NC	860	13432	62	2171
990030 Presses, n.e.c., NC	3	1451	2	169
990035 Mechanical transfer presses, non-NC	8	58252	1	337
990045 Mechanical presses, n.e.c., non-NC	59	14047	6	619
990060 Presses, n.e.c., non-NC	233	14168	31	1832
8463100080 Draw benches for bars, tubes, profiles, wire or the like	108	8765	11	803
200080 Thread rolling machines	42	1298	10	114
300080 Machines for working wire	653	35106	95	5268
900080 Metal forming machine tools, n.e.c.	616	18579	65	2064
9800900002 Used or rebuilt machine tools	2220	17735	83	1479
9900000002 Machine tools valued at less than \$3,025	8652	3190	1228	589
Forming Total			1904	31903
Y-T-D Forming Total	15736	326025		
NC Y-T-D Forming Total	462	51069		
Cutting and Forming Totals:				
Monthly Total			58058	150434
Y-T-D Total	519117	1303534		
NC Y-T-D Total	5804	706141		

Other Manufacturing Technology

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
1000000000 Machine tool parts and accessories	0	336937	0	54378
2000000000 Parts for working rubber or plastics - heading 8477	0	198212	0	23714
2710003070 Quenching or cutting oils	0	156	0	4
8428900010 Industrial robots for lifting, handling, loading or unload	1025	19366	86	4733
8431390080 Parts industrial robots, handling and loading - heading 8428	0	54080	0	7335
8456101010 Laser, light or photon beam for working metal, NC	83	20486	20	4247
101020 Laser, light or photon beam for working metal, non-NC	52	6673	6	414
105000 Laser, light or photon beam for other materials	43	5602	7	792
201010 Ultrasonic processes for working metal, NC	0	0	0	0
201050 Ultrasonic processes for working metal, non-NC	32	114	0	0
205000 Ultrasonic processes for working other materials	28	160	2	6
8477103000 Injection molding mach., for manufacturing shoes	6	878	1	3
106010 Injection molding mach., for rubber or oth. thermosetting	518	57586	86	7643
106050 Injection molding mach., for thermoplastics	1339	131394	198	18817
203005 Extruders; rubber or other thermosetting mat., single screw	27	4281	6	208
200015 Extruders; rubber or thermosetting, other incl. multi. screw	114	13141	9	682
200035 Extruders; thermoplastics, single screw, less than 6.4cm	58	1904	5	236
200045 Extruders; thermoplastics, single screw, 6.4cm or greater	60	6606	15	1993
200055 Extruders; thermoplastics, multi. screw, less than 6.4cm	35	3888	4	176
200065 Extruders; thermoplastics, multi. screw, 6.4cm or larger	88	11586	13	1062
300000 Blow molding machines	117	29971	13	1912
400000 Vacuum-molding and other thermoforming machines	231	12241	8	3102
510010 Machines for molding or retreading pneumatic tires	248	16184	10	2257
510090 Machines for molding or otherwise forming inner tubes	47	2996	3	26
590000 Machines for molding or otherwise forming n.e.c.	389	21242	56	4488
800000 Machines for working rubber or plastics n.e.c.	1273	97360	156	17146
8479899040 Industrial robots, n.e.c.	2309	90030	320	15007
908040 Industrial robot parts	0	19907	0	2757
8537100030 Numerical controls for controlling machine tools	5456	19601	731	2448
9024100000 Machines and appliances for testing metals	0	6669	0	699
9031100000 Machines for balancing mechanical parts	0	4361	0	555
300000 Profile projectors	0	3772	0	497
9032810020 Industrial process control instr., hydraulic	85003	2059	16199	132
810060 Industrial process control instr., pneumatic	101283	3133	14683	245

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

Metal Forming	Belgium		Brazil		Canada		France		Germany **	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	6	215	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	2	0	0	1	23
210080	0	0	0	0	3	244	4	18	3	635
290030	1	64	0	0	9	334	0	0	0	0
290040	0	0	0	0	0	0	1	7	0	0
290050	0	0	0	0	15	217	0	0	9	319
310080	0	0	0	0	0	0	0	0	0	0
390050	7	179	0	0	4	75	0	0	1	406
410080	0	0	0	0	0	0	0	0	2	34
490050	0	0	0	0	0	0	0	0	15	548
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	24	12	373	1	11	2	441
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	1	337
990045	0	0	0	0	2	7	0	0	0	0
990060	0	0	0	0	15	972	0	0	3	55
8463100080	0	0	0	0	0	0	0	0	8	452
200080	0	0	0	0	0	0	0	0	0	0
300080	1	5	1	20	1	65	0	0	10	963
900080	0	0	0	0	5	43	14	76	6	579
9800000002	4	93	0	0	29	159	0	0	5	610
9900000002	10	11	0	0	28	32	22	40	26	13
Month Tot	23	351	2	44	130	2736	42	152	92	5414
Y-T-D Tot	129	5300	26	19741	1395	27301	147	1254	988	54433
NC YTD Tot	1	561	0	0	23	3099	9	72	68	11679
C&F Month	69	739	170	1315	456	4962	398	2303	524	24861
C&F Y-T-D	199	6985	460	25157	3154	38754	1491	13311	6325	303876
C&F NC YTD	5	822	13	1501	51	5680	45	6319	479	187588

Other Manufacturing Technology

1000000000	0	194	0	132	0	9813	0	881	0	9776
2000000000	0	227	0	37	0	5337	0	1851	0	7906
2710003070	0	0	0	0	0	2	0	0	0	2
8428900010	0	0	0	0	1	14	0	0	3	2476
8431390080	0	5	0	9	0	1679	0	130	0	1070
8456101010	0	0	0	0	0	0	1	413	6	787
101020	0	0	0	0	0	0	0	0	5	301
105000	0	0	0	0	0	0	0	0	2	781
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	6	976	1	172	4	537
106050	0	0	0	0	52	7678	0	0	22	1401
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	1	3	0	0	5	434
200035	0	0	0	0	1	68	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	1	17	0	0	0	0	0	0	3	159
200065	0	0	0	0	2	56	0	0	3	498
300000	0	0	0	0	1	22	0	0	2	682
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	2	111	1	44	1	1935
510090	0	0	0	0	1	8	0	0	0	0
590000	0	0	0	0	12	1285	1	20	1	37
800000	0	0	0	0	13	244	1	129	26	4374
8479899040	0	0	0	0	0	0	19	316	5	268
908040	0	0	0	0	0	21	0	1	0	1120
8537100030	0	0	0	0	4	22	2	5	114	92
9024100000	0	0	0	0	0	54	0	10	0	78
9031100000	0	0	0	0	0	73	0	0	0	18
300000	0	0	0	0	0	0	0	0	0	170
9032810020	0	0	0	0	0	0	0	0	71	7
810060	0	0	0	0	3	117	0	0	10	4

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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Metal Forming	Italy		Japan		Korea		Singapore		Spain	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	6	1132	1	50	0	0	0	0
8462100030	1	136	1	145	0	0	0	0	0	0
100050	2	7	7	658	1	17	0	0	0	0
210080	2	725	55	2356	0	0	0	0	0	0
290030	0	0	2	27	0	0	0	0	0	0
290040	2	87	0	0	0	0	0	0	0	0
290050	4	59	14	1410	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	134	0	0	0	0	0	0
410080	0	0	22	2922	0	0	0	0	0	0
490050	0	0	3	60	0	0	0	0	12	153
910060	0	0	0	0	0	0	0	0	0	0
910090	8	551	11	460	0	0	0	0	0	0
990030	0	0	2	169	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	2	571	0	0	0	0	0	0
990060	0	0	8	704	0	0	0	0	1	7
8463100080	0	0	3	350	0	0	0	0	0	0
200080	0	0	7	51	0	0	0	0	0	0
300080	7	485	62	2075	0	0	0	0	6	348
900080	7	45	6	410	0	0	0	0	0	0
9800000002	1	9	10	397	0	0	0	0	0	0
9900000002	39	15	208	87	0	0	0	0	27	21
Month Tot	73	2119	433	14120	2	67	0	0	46	528
Y-T-D Tot	1055	21546	2670	143350	14	512	1	300	323	2061
NC YTD Tot	24	1484	283	24168	0	0	0	0	0	0
C&F Month	2070	5853	6597	65480	2245	2232	71	1142	197	1699
C&F Y-T-D	24250	47867	38715	566063	13488	11668	634	6921	1612	14216
C&F NC YTD	74	11624	3404	381273	94	6460	71	3392	149	1101

Other Manufacturing Technology

1000000000	0	1111	0	18441	0	124	0	286	0	105
2000000000	0	745	0	4406	0	134	0	23	0	12
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	56	1638	0	0	0	0	1	61
8431390080	0	532	0	1673	0	0	0	1	0	0
8456101010	0	0	13	3047	0	0	0	0	0	0
101020	1	113	0	0	0	0	0	0	0	0
105000	1	3	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	1	5	0	0	1	1	0	0
8477103000	1	3	0	0	0	0	0	0	0	0
106010	2	83	54	4583	3	299	0	0	0	0
106050	10	485	64	6869	2	153	0	0	0	0
200005	0	0	3	38	0	0	0	0	0	0
200015	0	0	1	165	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	3	335	2	343	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	0	0	3	1050	0	0	0	0	0	0
400000	0	0	3	3096	0	0	0	0	5	6
510010	0	0	5	149	0	0	0	0	0	0
510090	1	5	0	0	0	0	0	0	0	0
590000	5	1163	8	1460	0	0	0	0	0	0
800000	5	1894	60	6978	1	103	0	0	0	0
8479899040	0	0	231	12914	0	0	0	0	1	35
908040	0	38	0	971	0	1	0	2	0	0
8537100030	1	93	556	2142	0	0	0	0	0	0
9024100000	0	83	0	111	0	3	0	0	0	0
9031100000	0	70	0	365	0	0	0	0	0	0
300000	0	0	0	87	0	2	0	0	0	0
9032810020	0	0	1	6	3700	16	0	0	0	0
810060	0	0	90	25	5000	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	166	2	143	3	154	1	52	13	339
210080	0	0	0	0	0	0	0	0	2	162
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	16	341	0	0	5	46	3	210	6	154
310080	0	0	0	0	0	0	0	0	0	0
390050	1	178	0	0	0	0	20	116	7	129
410080	0	0	2	389	0	0	0	0	1	348
490050	0	0	2	95	0	0	3	39	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	25	268	0	0	2	42
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	2	41	0	0	0	0	0	0
990060	0	0	0	0	2	56	1	3	1	35
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	3	63	0	0	0	0
300080	0	0	1	604	0	0	1	10	5	693
900080	0	0	22	572	0	0	1	4	4	335
9800000002	0	0	0	0	0	0	5	123	29	89
9900000002	0	0	40	73	718	235	13	18	97	45
Month Tot	19	685	71	1918	756	822	48	575	167	2372
Y-T-D Tot	142	7841	648	12468	4550	4170	1647	11453	2001	14295
NC YTD Tot	10	1772	8	740	3	31	3	1479	30	5985
C&F Month	177	1311	216	11527	34417	12119	329	6748	10122	8142
C&F Y-T-D	2028	20798	1469	60501	346139	71331	3440	61520	75713	54567
C&F NC YTD	22	8134	176	23393	542	19527	242	30426	437	18902

Other Manufacturing Technology

1000000000	0	875	0	3921	0	1592	0	3234	0	3892
2000000000	0	89	0	436	0	672	0	593	0	1246
2710003070	0	0	0	0	0	0	0	0	0	1
8428900010	0	0	2	11	0	0	21	465	2	67
8431390080	0	212	0	257	0	153	0	520	0	1094
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	2	5	0	0	0	0	0	0	2	4
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	1	140	6	342	1	4	8	508
106050	0	0	4	812	9	225	2	174	33	1021
200005	0	0	0	0	0	0	3	170	0	0
200015	0	0	0	0	0	0	2	80	0	0
200035	0	0	0	0	0	0	4	168	0	0
200045	0	0	10	1315	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	2	26	4	164	2	318
300300	0	0	0	0	2	12	3	38	2	108
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	1	18
510090	0	0	0	0	1	13	0	0	0	0
590000	0	0	1	5	3	26	20	44	5	448
800000	0	0	4	136	8	38	9	2746	29	504
8479899040	11	465	8	154	0	0	2	670	43	184
908040	0	66	0	4	0	51	0	190	0	290
8537100030	0	0	4	40	50	54	0	0	0	0
9024100000	0	93	0	50	0	4	0	195	0	20
9031100000	0	0	0	0	0	7	0	7	0	15
300000	0	0	0	0	0	0	0	237	0	0
9032810020	0	0	1052	30	0	0	550	2	10825	69
810060	324	13	0	0	6016	27	0	0	3240	42

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
EUROPE						
Austria	87	811	0	0	87	811
Bulgaria	9	45	0	0	9	45
Czechoslovakia	14	231	0	0	14	231
Denmark	23	134	5	61	28	195
Finland	23	30	0	0	23	30
Hungary	3	105	4	679	7	784
Ireland	0	0	1	89	1	89
Luxembourg	0	0	0	0	0	0
Netherlands	3	171	16	555	19	726
Norway	0	0	0	0	0	0
Poland	18	267	0	0	18	267
Portugal	0	0	3	69	3	69
Romania	1	9	0	0	1	9
USSR	3	66	1	35	4	101
Yugoslavia	9	314	0	0	9	314
Oth Europe	2	21	12	86	14	108
TOTAL	3761	45503	456	13317	4217	58821
	=====	=====	=====	=====	=====	=====
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	379	106	17	24	396	130
Oth N & C Am.	0	0	0	0	0	0
TOTAL	705	2332	147	2760	852	5091
	=====	=====	=====	=====	=====	=====
SOUTH AMERICA						
Argentina	1	36	0	0	1	36
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	169	1307	2	44	171	1351
	=====	=====	=====	=====	=====	=====
OCEANIA						
Australia	21	174	2	270	23	444
New Zealand	8	8	0	0	8	8
Oth Oceania	0	0	0	0	0	0
TOTAL	29	182	2	270	31	452
	=====	=====	=====	=====	=====	=====

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
ASIA						
China	7064	1915	64	23	7128	1938
Hong Kong	2244	35	2	320	2246	355
India	10	93	0	0	10	93
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	6	454	8	141	14	595
Malaysia	0	0	7	4	7	4
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	27	745	0	0	27	745
Oth Asia	0	0	0	0	0	0
TOTAL	51490	69208	1272	15495	52762	84702
	=====	=====	=====	=====	=====	=====
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	25	16	25	16
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	25	16	25	16
	=====	=====	=====	=====	=====	=====

Note: Region totals include top countries detailed by product as well as countries listed above.

** West and East Germany are combined.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.